

Fig. 1

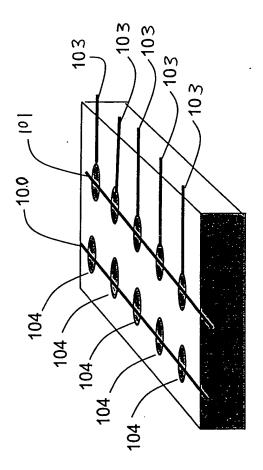


Fig. 2

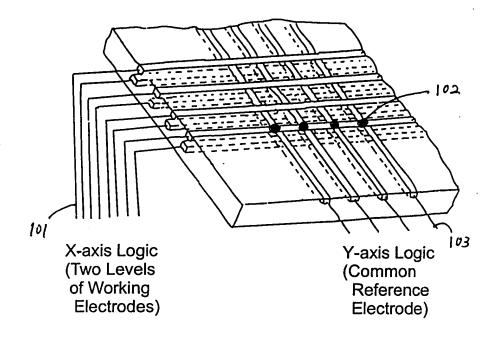


Fig. 3

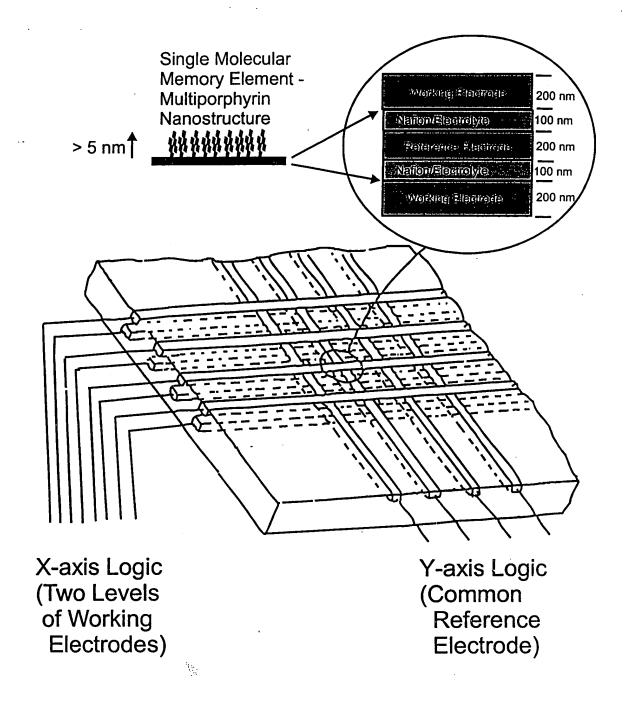


Fig. 4

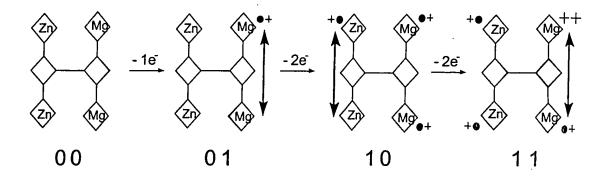


Fig. 5

Fig. 6

Fig. 7

45.57

Fig. 8

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## MMM IO Write

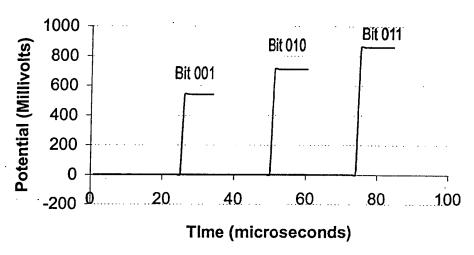


Fig. 9

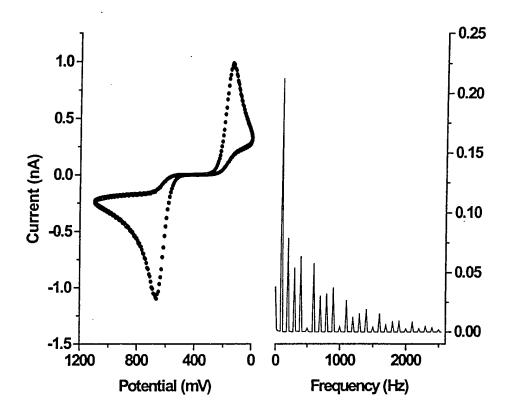


Fig. 10

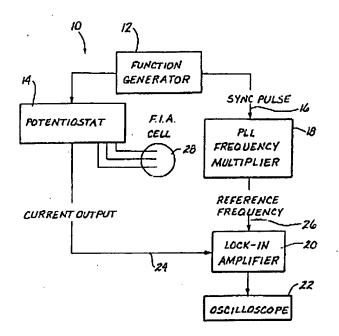
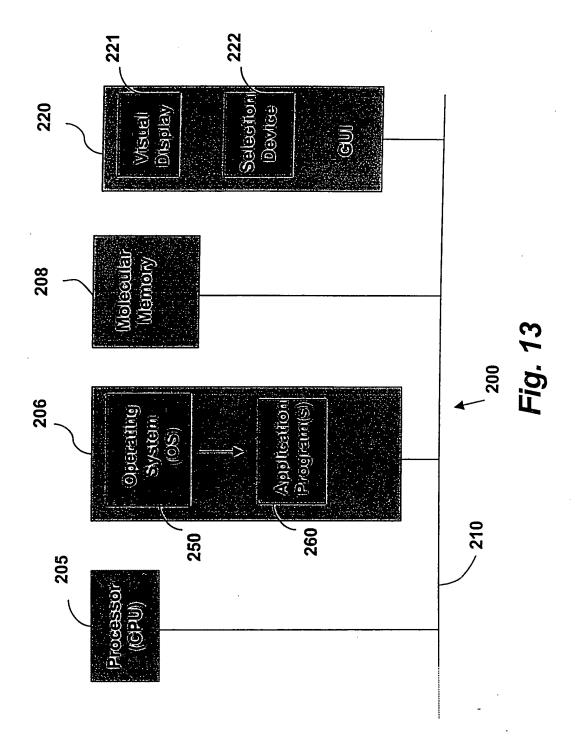


Fig. 11

7

Fig. 12



### Scheme 1.

Fig. 14

### Scheme 2.

Fig. 15

### Scheme 3.

Fig. 16

### Scheme 4.

Zn-20. R = Ac Zn-21. R = H

Fig. 17

Fig. 18

### Scheme 6.

Fig. 19

Zn-22. Zn-25. Zn-26. R = 2,4,6-trimethoxyphenyl R' = CONHEt  $R = C_6F_5$  R' = HR = n-pentyl R' = H

Fig. 20

Fig. 21

Fig. 22

WRITING BITS on Porphyrin Monolayer

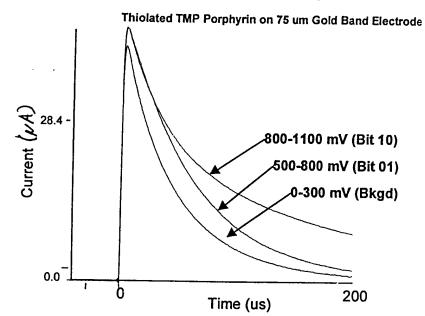


Fig. 23

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# Background-Subtracted "READ" Current

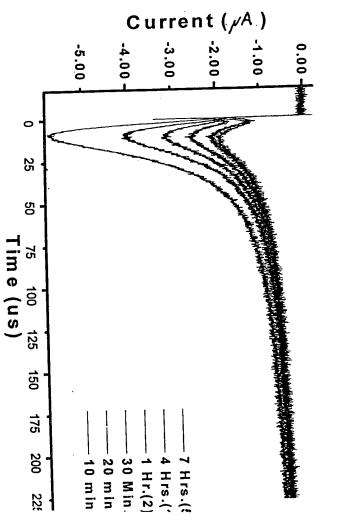


Fig. 24

# Read/Write of a Monomeric Porphyrin

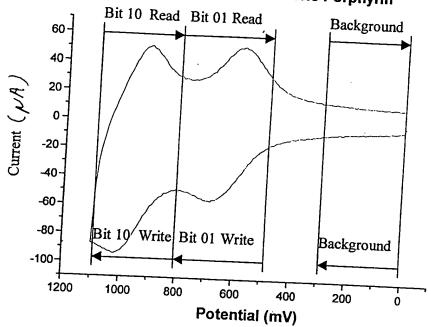


Fig. 25

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